The Da-Lite Difference.

Instruction Book for
TENSIONED EXECUTIVE ELECTROL®

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IMPORTANT SAFETY INSTRUCTIONS

When using your video equipment, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions before using.
2. Position the cord so that it will not be tripped over, pulled, or contact hot surfaces.
3. If an extension cord is necessary, a cord with a current rating at least equal to that of the appliance should be used. Cords rated for less amperage than the appliance may overheat.
4. To reduce the risk of electric shock, do not disassemble this appliance. Contact an authorized service dealer when repair work is required. Incorrect reassembly can cause electric shock when the appliance is used subsequently.
5. The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons.

SAVE THESE INSTRUCTIONS

PRE-INSTALLATION

1. Carefully unpack screen and remove outer wrapping from case.
2. Remove instructions cover and please read instructions. (Fig. 1)
3. Remove fabric and cardboard strips from access door. (Fig. 1)
4. Remove access door by gently prying from edge of box toward the fabric door.
5. FOR TYPE 3 INSTALLATION ONLY. Remove wood strips along bottom of screen case.

   NOTE: Screen surface is not centered in box. Screen surface is 25" from motor end.
6. Make sure to recheck measurements of screen location before installation.
7. Remove, reverse, and remount center support brackets.

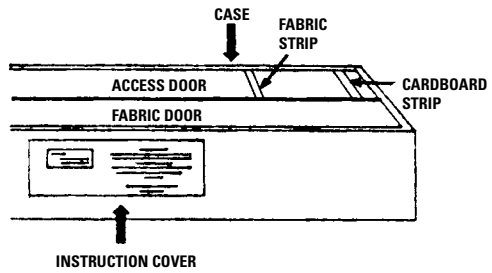


FIGURE 1

INSTALLATION

1. Position screen under mounting location with the case opening down.
2. Install screen by raising unit into position between joists at one end only. Install one lag screw in each mounting bracket. Secure opposite end. Support center of the screen using the brackets.
3. Level unit lengthwise with a carpenter's level and a plum level.

CAUTION! Do not secure access door or seal in unit until screen has been secured in position and properly tested for satisfactory operation. Do not fit unit so tightly that the screen surface drop door binds. Door drops by gravity only.

INSTALLATION

4. If you are going to cover screen door with paneling or other materials, allow access (suitable holes or a plug) to screws for servicing.
5. Picture surface should hang freely. (Fig. 2) Remove any tape left hanging on back of fabric. Bottom edge should be positioned between bottom edge of case and center of roller.
6. Install electrical hook up that applies to your unit. Unit should be wired by a qualified electrician.
7. Test installation by carefully running picture surface **"up"** and **"down"** several times. Be prepared to stop screen. Fabric door must open freely to 90˚.
8. Make sure picture surface, when rolled down, has a full wrap around roller. No part of roller should be exposed. Fabric door and picture surface will drop simultaneously when switch is pressed **"down"**. Door will close simultaneously with picture surface as picture surface rolls into case.

CROSS SECTION

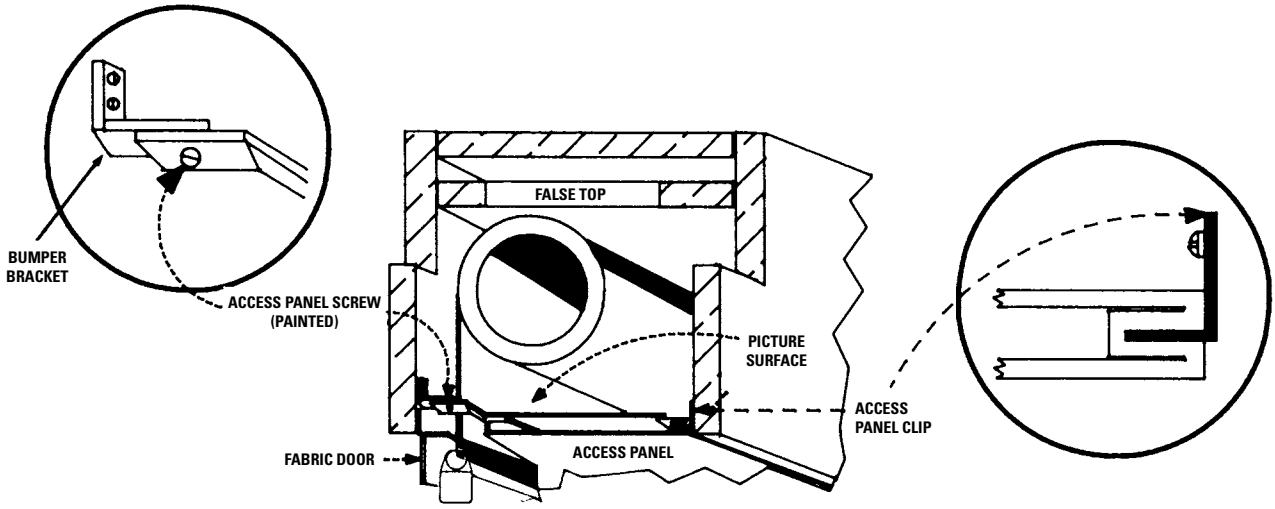


FIGURE 2

ACCESS DOOR INSTALLATION

1. Press switch **"down"** so that fabric door opens (Fig. 2).
2. Remove screws (2) located on each bumper bracket.

   NOTE: The access door is slotted on one edge, permitting the slotted section to fit over the access panel clips on inside of case.
3. Place access panel so slot can be pushed over clips. Holes in access panel brackets should align with bumper bracket holes.
4. Replace screws.
5. Make sure there is approximately 3⁄16" clearance around access door. Keep paint, plaster, tile or mastic out of hinge. Fit access panel so it can be removed for maintenance.

SCREEN ADJUSTMENT

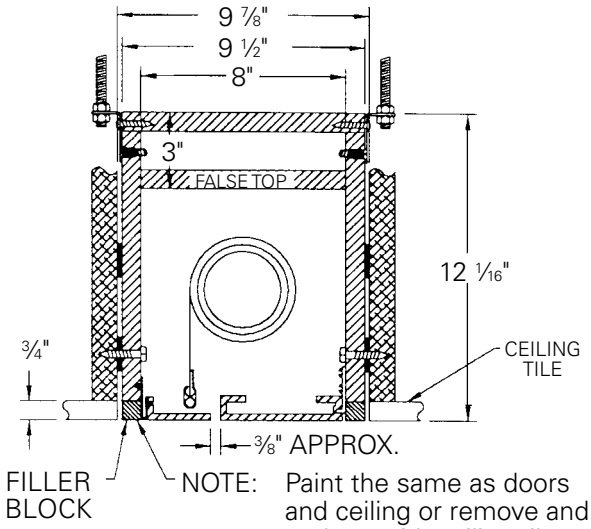
The picture surface drop, and the opening and closing of the fabric door, are controlled automatically by limit switches which have been preset at Da-Lite. When the picture surface is moving upward, it is controlled by a limit switch that shuts off when the door closes. The height for tensioned screens are adjusted at Da-Lite, changing the height of screen will change the tension on fabric and cause the screen to hang improperly. **Do not adjust**.

SUGGESTED METHODS OF INSTALLATION

TYPE 1 & 2

Offset mounting, recessed above ceiling, for plaster, dry wall or paneling. Door painted same finish as ceiling.

INCLUDING MOUNTING BRACKETS

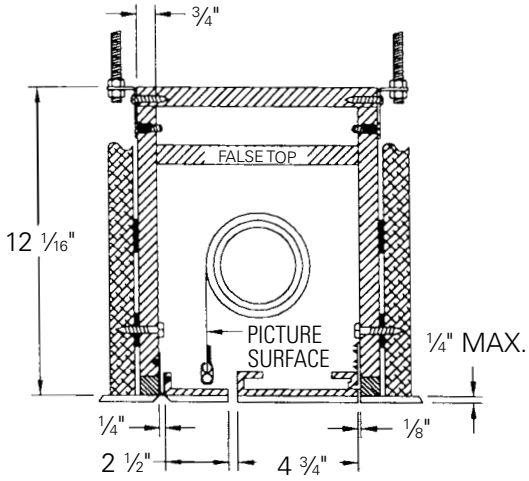


NOTE: Paint the same as doors and ceiling or remove and replace with ceiling tile.

TYPE 1 & 2

Allow 1/8" min. clearance all around surface door.

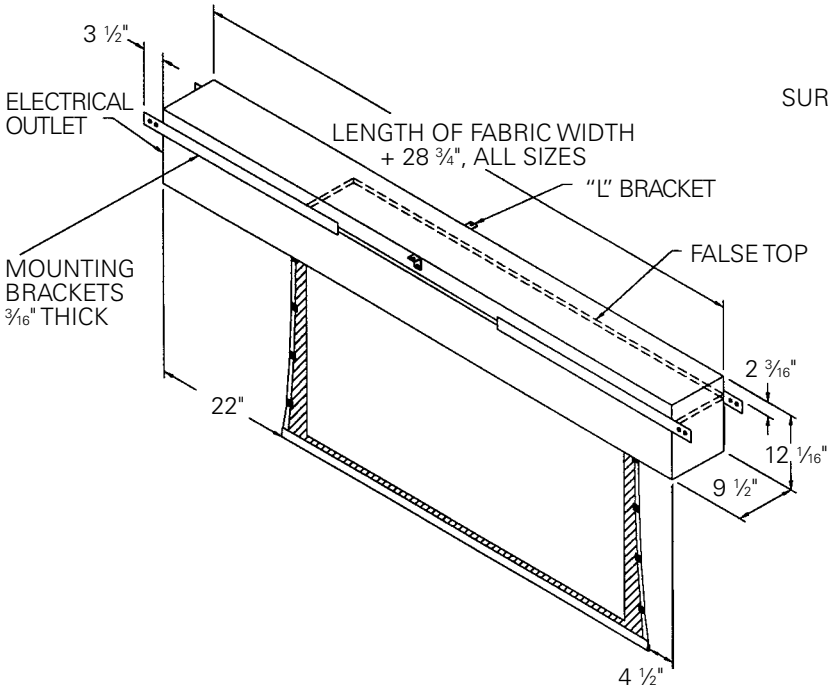
Flush mounting, recessed above ceiling. For use with 1/4" max. paneling or installation in existing ceiling using molding around door.

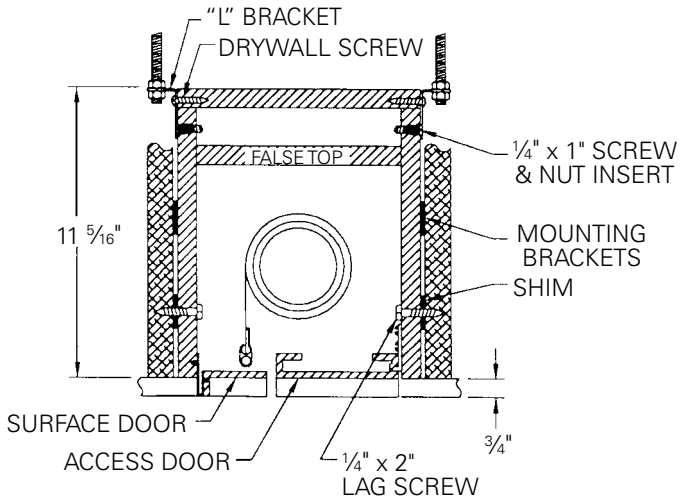


TYPE 3

Allow 1/4" min. clearance all around surface door.

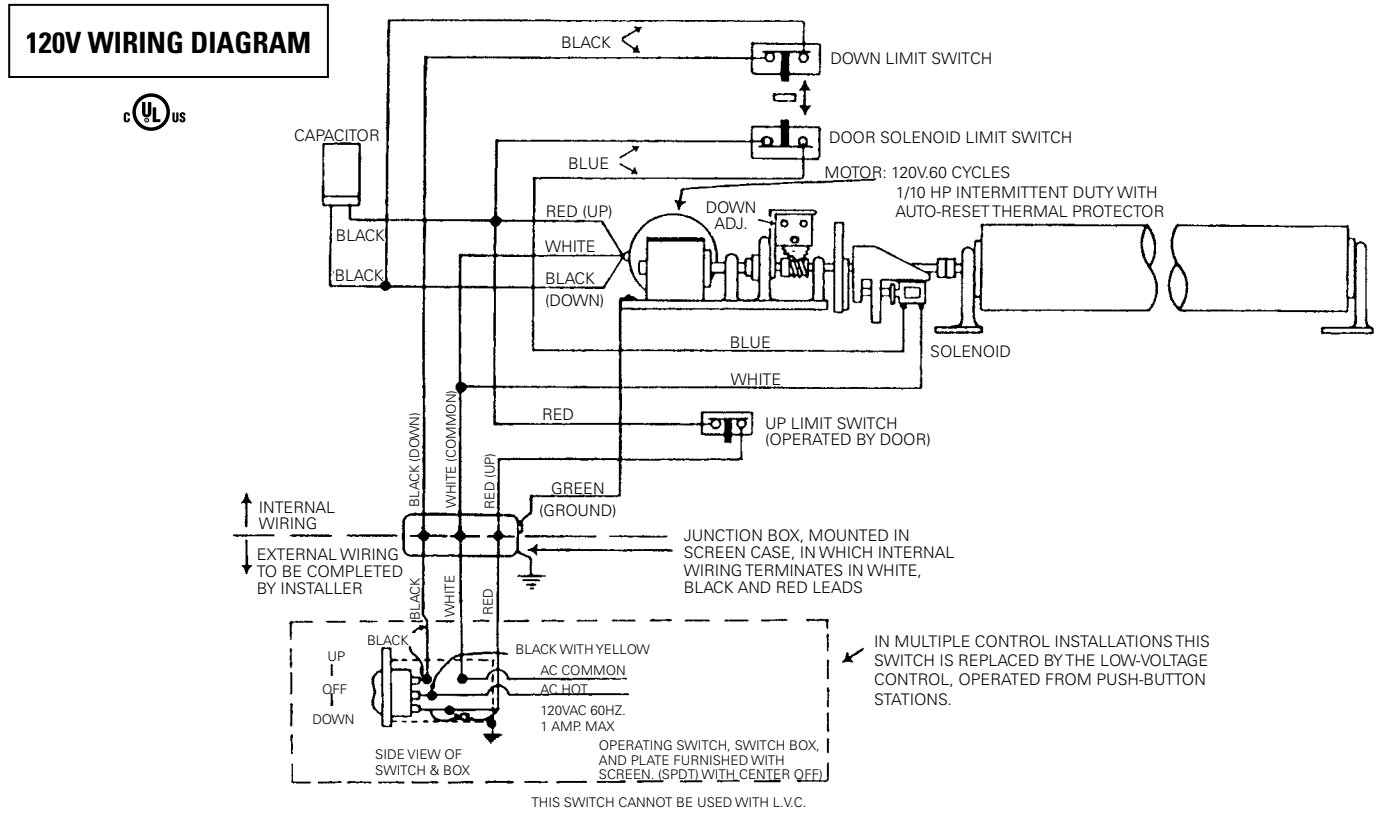
Extended mounting, recessed above ceiling. For use with acoustical or other ceiling tile 3/4" thick laid over door.





TENSIONED EXECUTIVE ELECTROL® INSTALLATION

120V WIRING DIAGRAM



240 VOLT WIRING DIAGRAM FOR STANDARD WALL SWITCH:

Da-Lite offers two styles of 240 volt wall switches for standard operation. Please see wiring diagram included in wall switch box included with screen.

TROUBLESHOOTING

SYMPTOM	CAUSE	SOLUTION
1. Screen will not operate or will not go **"down"**. Motor does **not** hum.	(a) Blown fuse.	(a) Replace fuse.
	(b) Tripped circuit breaker.	(b) Reset circuit breaker.
	(c) Improper wiring to operating switch.	(c) Tighten all loose wire connections. Correct any improper connections. Check for power. **"Down" Position** Check for power across black and white leads. **"Up" Position** Check for power across red and white leads.
	(d) Improper wiring to junction box in screen. **NOTE: Use low voltage control (LVC) electrical checklist for either 1- or 3-button control.**	(d) "**Down" Position** Check for power at black and white leads. **"Up" Position** Check for power at red and white leads.
	Defective wall switch.	Shut power **"off"** at breaker. Remove wall switch and check for broken or loose connection. Replace if defective.
	Defective LVC unit.	Check LVC electrical checklist.
	(e) Thermal overload tripped (excessive overheating).	(e) Let motor cool down for 15 minutes. Try again.
	(f) Burned out motor winding.	(f) Disconnect motor leads and check for continuity between black and white wires for **"down"** position. Check for continuity between red and white wires for **"up"** position. Replace gear motor if either combination shows an open circuit.
	(g) Defective limit switch.	(g) Disconnect **"down"** limit switch from circuit. Check for continuity. Switches are normally closed and open on contact. Replace if defective.
2. Motor **hums.**	(a) Temporary fabric binding.	(a) With power **"off,"** turn roller by hand to free binding.
	(b) Shipping bracket not removed.	(b) Remove shipping bracket and wooden wedge.
	(c) Defective capacitor.	(c) Replace capacitor

TROUBLESHOOTING

SYMPTOM	CAUSE	SOLUTION
3. Screen will not move **"up."** Motor does **not** hum.	(a) No power between red and white leads in junction box. Check LVC. See above.	(a) Check fuse. Reset circuit breaker. Correct improper wiring.
	(b) Thermal overload tripped (acts as a breaker).	(b) Let motor cool for 15 minutes. Try again.
	(c) Burned out motor winding.	(c) Check for power between red and white motor leads. Replace motor if there is power.
Motor **hums.**	(d) Temporary fabric binding.	(d) With power "off," turn roller by hand to free binding.
	(e) Burned out capacitor.	(e) Replace capacitor.
	(f) Broken wire or loose connection in **"up"** position (red and white leads).	(f) Secure connection or replace wire.
4. Screen starts **upward** and door closes immediately shutting off motor.	(a) Defective solenoid limit switch. Solenoid pin not retracting.	(a) Manually retract pin a few times.
	(b) Defective solenoid.	(b) Check for power to the solenoid terminals. If there is power, replace solenoid. Check blue wire between solenoid switch and solenoid. It is either crimped or broken. Repair or replace.
5. Fabric door does not fully open. Screen runs. **NOTE: Remember, door must open by gravity.**	(a) Door binding. Plaster, paint or adhesive can cause the hinge to stick.	(a) Clean hinge and apply oil.
	(b) Case may be put into a bind during installation.	(b) Tighten or loosen lag screws located on back of case.
	(c) Inadequate clearance around the fabric door on new installations.	(c) Provide adequate clearance.
6. Clicking noise in each **downward** revolution.	(a) Non-energized solenoid. **NOTE: There should be three clicks.**	(a) Check for power to solenoid. (b) Replace solenoid.
7. Loud buzzing noise.	(a) Solenoid not fully retracting.	(a) Check for foreign object caught in solenoid. Remove object. Tighten 4 mounting screws. Check for pin binding.
8. Door closes on fabric, leaving 15" to 20" left hanging out.	(a) Lost roller wrap.	(a) See installation instructions.

TROUBLESHOOTING

SYMPTOM	CAUSE	SOLUTION
9. Screen jammed. Will not operate, motor hums, door open, closing mechanism detached from door.	(a) Closing mechanism detached from door, allowing it to jam into box.	(a) After securing fabric to roller, loosen set screws on motor gear and manually rotate solenoid assembly back over top of roller into position, then reattach door. Match flats on motor drive shaft to gear set screws and tighten.
10. Scraping or grinding noise.	(a) If metal shipping bracket is left attached to screen, it may be rubbing on motor end of roller.	(a) Remove shipping brace.
11. Gear noise.	(a) Gear may need light weight grease.	(a) Apply light weight grease.
12. Incorrect down limit switch setting.	(a) Lost roller wrap. (b) Limit switch out of adjustment.	(a) See installation instructions. (b) See door closure and timing instructions.
13. Door closes and screen continues to run **upward.**	(a) Door limit out of adjustment. (b) Door limit switch is shorted.	(a) Loosen nut holding limit switch. Rotate adjusting position, then secure. (b) Repair short or replace limit switch.